

⁴³
~~43.~~ A recombinant mammalian chromosome comprising a Group I intron encoded endonuclease site.

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~~44.~~ The recombinant chromosome of claim ⁴⁵~~43~~, wherein said endonuclease site is selected from the group consisting of Class I I-endonuclease sites, Class II I-endonuclease sites, Class III I-endonuclease sites, Class IV I-endonuclease sites, and Class V I-endonuclease sites.

⁴⁵
~~45.~~ The recombinant chromosome of claim ⁴⁶~~44~~, wherein said endonuclease site is a Class I I-endonuclease site.

⁴⁶
~~46.~~ The recombinant chromosome of claim ⁴⁷~~45~~, wherein said Class I I-endonuclease site is selected from I-SceI, I-SceIV, I-Csml, and I-PanI sites.

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~~47.~~ The recombinant chromosome of claim ⁴⁸~~46~~, wherein said Class I I-endonuclease site is an I-SceI site.

⁴⁸
~~48.~~ The recombinant chromosome of any of claims ⁴⁵⁻⁴⁹~~43-47~~, wherein said chromosome is a murine chromosome.

⁴⁹
~~49.~~ The recombinant chromosome of claim ⁵⁰~~48~~, wherein said chromosome is a mouse chromosome.

⁵⁰
~~50.~~ A recombinant mammalian cell comprising the recombinant chromosome of claim ⁴⁵~~48~~.

⁵¹
~~51.~~ The recombinant cell of claim ⁵²~~50~~, wherein said endonuclease site is selected from the group consisting of Class I I-endonuclease sites, Class II I-

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endonuclease sites, Class III I-endonuclease sites, Class IV I-endonuclease sites, and Class V I-endonuclease sites.

⁵⁴~~52~~. The recombinant cell of claim ⁵³~~51~~, wherein said endonuclease site is a Class I I-endonuclease site.

⁵⁵~~53~~. The recombinant cell of claim ⁵⁴~~52~~, wherein said Class I I-endonuclease site is selected from I-SceI, I-SceIV, I-CsmI, and I-PanI sites.

⁵⁶~~54~~. The recombinant cell of claim ⁵⁵~~53~~, wherein said Class I I-endonuclease site is an I-SceI site.

⁵⁷~~55~~. The recombinant cell of any of claims ⁵²⁻⁵⁶~~50-54~~, wherein said cell is a murine cell.

⁵⁸~~56~~. The recombinant cell of claim ⁵⁷~~55~~, wherein said murine cell is a mouse cell.

⁵⁹~~57~~. The recombinant cell of claim ⁵⁷~~55~~, wherein said murine cell is a murine stem cell.

⁶⁰~~58~~. The recombinant cell of claim ⁵⁹~~57~~, wherein said murine stem cell is a mouse stem cell. --